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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ronald D. Knudsen, et al.

Serial No.: 10/783,429

Filed: February 20, 2004

For: METHODS OF PREPARATION OF AN OLEFIN
OLIGOMERIZATION CATALYST§
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Group Art Unit: 1764

Examiner: Not yet assigned

Confirmation No.: 6369

CERTIFICATE OF MAILING

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

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8-30-05

(Date of Deposit)

Scot M. Shield

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INFORMATION DISCLOSURE STATEMENT

Commissioner:

This Information Disclosure Statement, including completed Form PTO-1449, comprises a list of pertinent art of which Applicants are aware. Copies of the foreign patents and publications listed on Form PTO-1449 are enclosed herewith. In accordance with 37 C.F.R. 1.98(e), no paper copies of those U.S. Patents are enclosed.

The submission of this Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove

any alleged "prior" nature of any art cited should the facts support and that situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.


Also included herewith is the *International Search Report and Written Opinion* dated June 1, 2005 for PCT/US2005/005416, which is a foreign counterpart application of the above-styled matter, and was not cited more than three months prior to the filing of this Information Disclosure Statement.

Applicants believe that no fee is due for the filing of this Information Disclosure Statement. Nonetheless, in the event that a fee is due, please charge it to Deposit Account 50-1515 of Conley Rose, P.C.

Respectfully submitted,
CONLEY ROSE, P.C.

Date: _____

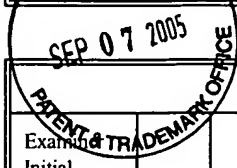
8-30-05


Rodney B. Carroll
Reg. No. 39,624

5700 Granite Parkway, Suite 330
Plano, Texas 75024
(972) 731-2288
(972) 731-2289 Facsimile

ATTORNEY FOR APPLICANTS

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 4081-04401 (210453US01)	SERIAL NO. 10/783,429
INFORMATION DISCLOSURE STATEMENT BY APPLICANT For Methods of Preparation of an Olefin Oligomerization Catalyst (Use several sheets if necessary)		APPLICANT Ronald D. Knudsen, et al.	
		FILING DATE 02/20/2004	GROUP 1764



U. S. PATENT DOCUMENTS														
Examined Initial	Patent Number								Issue Date	Patentee	Class	Sub-class	Filing Date (If Appropriate)	
	AA	3	6	3	5	8	6	9	01/18/1972	Steele, et al.	260	30.4EP		
	AB	3	8	1	9	7	4	6	06/25/1974	Katzakian Jr., et al.	260	830TW		
	AC	3	8	7	3	6	0	2	03/25/1975	Katzakian Jr., et al.	260	475P		
	AD	3	9	3	2	2	8	5	01/13/1976	Ceprini, et al.	252	1		
	AE	3	9	6	2	1	8	2	06/08/1976	Steele, et al.	260	47EN		
	AF	3	9	6	8	1	3	5	07/06/1976	Steele, et al.	260	438.5R		
	AG	3	9	7	7	9	9	6	08/31/1976	Katzakian Jr., et al.	252	431C		
	AH	3	9	7	8	0	2	6	08/31/1976	Katzakian Jr., et al.	260	47EC		
	AI	4	0	1	7	4	2	9	04/12/1977	Steele, et al.	260	2EP		
	AJ	4	6	6	8	8	3	8	05/26/1987	Briggs	585	513		
	AK	4	7	7	7	3	1	5	10/11/1988	Levine, et al.	585	512		
	AL	4	8	5	3	3	5	6	08/01/1989	Briggs	502	117		
	AM	5	1	3	7	9	9	4	08/11/1992	Goode, et al.	526	75		
	AN	5	1	9	8	5	6	3	03/30/1993	Reagen, et al.	556	57		
	AO	5	2	8	8	8	2	3	02/22/1994	Reagen, et al.	526	124		
	AP	5	3	3	1	0	7	0	07/19/1994	Pettijohn, et al.	526	105		
	AQ	5	3	3	1	1	0	4	07/19/1994	Reagen, et al.	585	512		
	AR	5	3	4	0	7	8	5	08/23/1994	Reagen, et al.	502	109		
	AS	5	3	6	0	8	7	9	11/01/1994	Reagen, et al.	526	129		
	AT	5	3	7	6	6	1	2	12/27/1994	Reagen, et al.	502	104		
	AU	5	3	8	2	7	3	8	01/17/1995	Reagen, et al.	585	512		
	AV	5	3	9	3	7	1	9	02/28/1995	Pettijohn, et al.	502	113		
	AW	5	3	9	9	5	3	9	03/21/1995	Reagen, et al.	502	107		
	AX	5	4	3	8	0	2	7	08/01/1995	Reagen, et al.	502	117		
	AY	5	4	5	1	6	4	5	09/19/1995	Reagen, et al.	526	97		
	AZ	5	4	7	0	9	2	6	11/28/1995	Reagen, et al.	526	120		
	BA	5	4	9	1	2	7	2	02/13/1996	Tanaka, et al.	585	520		
	BB	5	5	2	3	5	0	7	06/04/1996	Reagen, et al.	585	513		
	BC	5	5	4	3	3	7	5	08/06/1996	Lashier, et al.	502	117		

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	BD	5	5	5	0	3	0	5	08/27/1996	Wu	585	513	
	BE	5	5	5	7	0	2	6	09/17/1996	Tanaka, et al.	585	522	
	BF	5	5	6	3	3	1	2	10/08/1996	Knudsen, et al.	585	513	
	BG	5	6	8	9	0	2	8	11/18/1997	Lashier, et al.	585	512	
	BH	5	7	3	1	4	8	7	03/24/1998	Tamura, et al.	585	513	
	BI	5	7	4	4	6	7	7	04/28/1998	Wu	585	512	
	BJ	5	7	5	0	8	1	6	05/12/1998	Araki, et al.	585	512	
	BK	5	7	5	9	8	1	7	05/12/1998	Tanaka, et al.	585	520	
	BL	5	7	6	3	7	2	3	06/09/1998	Reagen, et al.	585	513	
	BM	5	7	8	6	4	3	1	07/28/1998	Reagen, et al.	526	113	
	BN	5	8	1	1	6	1	8	09/22/1998	Wu	585	513	
	BO	5	8	1	4	5	7	5	09/29/1998	Reagen, et al.	502	117	
	BP	5	8	5	6	2	5	7	01/05/1999	Freeman, et al.	502	152	
	BQ	5	9	5	6	6	1	0	01/05/1999	Tamura, et al.	585	517	
	BR	5	8	5	6	6	1	2	01/05/1999	Araki, et al.	585	522	
	BS	5	8	5	9	3	0	3	01/12/1999	Lashier	585	513	
	BT	5	9	1	9	6	1	9	06/08/1999	Urata, et al.	585	513	
	BU	5	9	1	9	9	9	6	07/06/1999	Freeman, et al.	585	513	
	BV	5	9	6	8	8	6	6	10/19/1999	Wu	502	155	
	BW	5	9	8	6	1	5	3	11/16/1999	Kallenbach, et al.	585	2	
	BX	6	0	3	1	1	4	5	02/29/2000	Commereuc, et al.	585	512	
	BY	6	1	0	3	6	5	4	08/15/2000	Commereuc, et al.	502	110	
	BZ	6	1	2	7	3	0	1	10/03/2000	Iwanaga, et al.	502	119	
	CA	6	1	3	9	4	9	5	10/17/2000	Urata, et al.	585	513	
	CB	6	2	2	1	9	8	8	04/24/2001	Commereuc, et al.	526	160	
	CC	6	3	3	7	2	9	7	01/08/2002	Mimura, et al.	502	117	
	CD	6	3	4	4	5	9	4	02/05/2002	Sen, et al.	585	511	
	CE	6	3	8	0	4	5	1	04/30/2002	Kreischer, et al.	585	502	
	CF	6	4	5	5	6	4	8	09/24/2002	Freeman, et al.	526	161	
	CG	6	5	2	1	8	0	6	02/18/2003	Tamura, et al.	585	512	

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Examiner Initial		Patent Number							Issue Date	Patentee	Class	Sub-class	Filing Date (If Appropriate)
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	CI	US 2001/0053742 A1							12/20/2001	Knudsen, et al.	502	117	
	CJ	US 2002/0035029 A1							03/21/2002	Yoshida, et al.	502	154	
	CK	US 2003/0130551 A1							07/10/2003	Drochon, et al.	585	520	

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			Document Number	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
								Yes	No
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		DR	CA 2087578 A1	07/20/1994	Canada			X	
		DC	CA 2115639 C	10/19/2004	Canada			X	
		DD	CN 1256968	06/21/2000	China			X	
		DE	CN 1294109	05/09/2001	China			X	
		DF	CN 1361093	07/31/2002	China			X	
		DG	EP 0537609 A2	04/21/1993	EPO			X	
		DH	EP 0608447 A1	08/03/1994	EPO			X	
		DI	EP 0668105 A2	08/23/1995	EPO			X	
		DJ	EP 1110930 A1	06/27/2001	EPO				X
		DK	FR 2833191 A1	06/13/2003	France				X
		DL	FR 2857964 A1	01/28/2005	France				X
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		DN	JP 7010780	01/13/1995	Japan			X	
		DO	JP 7017878	01/20/1995	Japan			X	
		DP	JP 7018013	01/20/1995	Japan			X	
		DQ	JP 7118173	05/09/1995	Japan			X	
		DR	JP 7118174	05/09/1995	Japan			X	
		DS	JP 7118175	05/09/1995	Japan			X	
		DT	JP 7118324	05/09/1995	Japan			X	
		DU	JP 7118325	05/09/1995	Japan			X	
		DV	JP 7118326	05/09/1995	Japan			X	

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			Document Number	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
								Yes	No
		DW	JP 7118327	05/09/1995	Japan			X	
		DX	JP 7118328	05/09/1995	Japan			X	
		DY	JP 7149671	06/13/1995	Japan			X	
		DZ	JP 7149672	06/13/1995	Japan			X	
		EA	JP 7149673	06/13/1995	Japan			X	
		EB	JP 7149677	06/13/1995	Japan			X	
		EC	JP 7149675	06/13/1995	Japan			X	
		ED	JP 7149675	06/13/1995	Japan			X	
		EE	JP 7149677	06/13/1995	Japan			X	
		EF	JP 7157512	06/20/1995	Japan			X	
		EG	JP 7215896	08/15/1995	Japan			X	
		EH	JP 8059732	03/05/1996	Japan			X	
		EI	JP 8134131	05/28/1996	Japan			X	
		EJ	JP 8151409	06/11/1996	Japan			X	
		EK	JP 8183747	07/16/1996	Japan			X	
		EE	JP 8239330	09/17/1996	Japan			X	
		EM	JP 8239331	09/17/1996	Japan			X	
		EN	JP 8245429	09/17/1996	Japan			X	
		EO	JP 8245429	09/24/1996	Japan			X	
		EP	JP 8245430	09/24/1996	Japan			X	
		EO	JP 8245431	09/24/1996	Japan			X	
		ER	JP 8283330	10/29/1996	Japan			X	
		ES	JP 8283330	10/29/1996	Japan			X	
		ET	JP 8301921	11/19/1996	Japan			X	
		EU	JP 8301922	11/19/1996	Japan			X	
		EV	JP 8301923	11/19/1996	Japan			X	
		EW	JP 8301924	11/19/1996	Japan			X	
		EX	JP 8301925	11/19/1996	Japan			X	
		EY	JP 8325317	12/10/1996	Japan			X	

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								Yes	No
		EZ	JP 8325318	12/10/1996	Japan			X	
		FA	JP 8325319	12/10/1996	Japan			X	
		FB	JP 8333407	12/17/1996	Japan			X	
		FG	JP 9012627	01/14/1997	Japan			X	
		FD	JP 9020692	01/21/1997	Japan			X	
		FE	JP 9020693	01/21/1997	Japan			X	
		FF	JP 9040710	02/10/1997	Japan			X	
		FG	JP 9087318	03/31/1997	Japan			X	
		FH	JP 9143213	06/03/1997	Japan			X	
		FI	JP 9176228	07/08/1997	Japan			X	
		FJ	JP 9176229	07/08/1997	Japan			X	
		FK	JP 9020693	07/22/1997	Japan			X	
		FL	JP 9194400	07/29/1997	Japan			X	
		FM	JP 9194524	07/29/1997	Japan			X	
		FN	JP 9262480	10/07/1997	Japan			X	
		FO	JP 9268133	10/14/1997	Japan			X	
		FP	JP 9268134	10/14/1997	Japan			X	
		FD	JP 9268135	10/14/1997	Japan			X	
		FR	JP 10007594	01/13/1998	Japan			X	
		FS	JP 10007594	01/13/1998	Japan			X	
		FT	JP 10007595	01/13/1998	Japan			X	
		FU	JP 10007681	01/13/1998	Japan			X	
		FV	JP 10036431	02/10/1998	Japan			X	
		FW	JP 10036432	02/10/1998	Japan			X	
		FX	JP 10036433	02/10/1998	Japan			X	
		FY	JP 10036435	02/10/1998	Japan			X	
		FZ	JP 10045634	02/17/1998	Japan			X	
		GA	JP 10045638	02/17/1998	Japan			X	
		GB	JP 10045833	02/17/1998	Japan			X	

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								Yes	No
		GC	JP 10060043	03/03/1998	Japan			X	
		GD	JP 10087517	04/07/1998	Japan			X	
		GE	JP 10087518	04/07/1998	Japan			X	
		GF	JP 10101587	04/21/1998	Japan			X	
		GG	JP 10218799	08/18/1998	Japan			X	
		GH	JP 11060511	03/02/1999	Japan			X	
		GI	JP 11060626	03/02/1999	Japan			X	
		GJ	JP 11092407	04/06/1999	Japan			X	
		GK	JP 11092408	04/06/1999	Japan			X	
		GL	JP 2000176291	06/27/2000	Japan			X	
		GM	JP 2000202299	07/25/2000	Japan			X	
		GN	JP 2000212212	08/02/2000	Japan			X	
		GO	JP 2001002724	01/09/2001	Japan			X	
		GP	JP 2001009290	01/16/2001	Japan			X	
		GQ	JP 2001096164	04/10/2001	Japan			X	
		GR	JP 2001149788	06/05/2001	Japan			X	
		GS	JP 2001187345	07/10/2001	Japan			X	
		GT	JP 2002045703	02/12/2002	Japan			X	
		GU	JP 2002102710	04/09/2002	Japan			X	
		GV	JP 2002172327	06/18/2002	Japan			X	
		GW	JP 2002233764	08/20/2002	Japan			X	
		GX	JP 2002233765	08/20/2002	Japan			X	
		GY	JP 2002066329	03/05/2002	Japan			X	
		GZ	JP 2002200429	07/16/2002	Japan			X	
		HA	JP 2002205960	07/23/2002	Japan			X	
		HB	JP 2003071294	03/11/2003	Japan			X	
		HC	JP 2003088760	03/25/2003	Japan			X	
		HD	JP 2004136270	05/13/2004	Japan			X	
		HE	JP 2004136271	05/13/2004	Japan			X	

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								Yes	No
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		HG	KR 2003029253	04/14/2003	Korea			X	
		HH	WO 94/15940	07/21/1994	WIPO				X
		HI	WO 99/19280	04/22/1999	WIPO			X	
		HJ	WO 00/37175 A1	06/29/2000	WIPO			X	
		HK	WO 01/38270 A1	05/31/2001	WIPO			X	
		HI	WO 01/47839 A1	07/05/2001	WIPO			X	
		HM	WO 01/48028 A1	07/05/2001	WIPO			X	
		HN	WO 01/68572 A1	09/20/2001	WIPO			X	
		HO	WO 01/83447 A2	11/08/2001	WIPO			X	
		HP	WO 02/04119 A1	01/17/2002	WIPO			X	
		HQ	WO 02/066404 A1	08/29/2002	WIPO			X	
		HR	WO 02/066405 A1	08/29/2002	WIPO			X	
		HS	WO 02/083306 A2 & A3	10/24/2002	WIPO			X	
		HT	WO 03/004158 A2	01/16/2003	WIPO			X	
		HU	WO 03/024902 A1	03/27/2003	WIPO				X
		HV	WO 03/053890 A1	07/03/2003	WIPO			X	
		HW	WO 03/053891 A1	07/03/2003	WIPO			X	
		HX	WO 2004/056477 A1	07/08/2004	WIPO			X	
		HY	WO 2004/056478 A1	07/08/2004	WIPO			X	
		HZ	WO 2004/056479 A1	07/08/2004	WIPO			X	
		IA	WO 2004/056480 A1	07/08/2004	WIPO			X	

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	JA	AGAPIE, Theodor, et al., "Mechanistic Studies of the Ethylene Trimerization Reaction with Chromium-Diphosphine Catalysts: Experimental Evidence for a Mechanism Involving Metallocyclic Intermediates," JACS Communications, J. Am. Chem. Soc., Vol. 126, No. 5, 2004, pgs. 1304-1305.	
	JB	AGAPIE, Theodor, et al., "Structural and mechanistic studies of a chromium-diphosphine system for catalytic trimerization of ethylene," INOR 494, 227 th ACS National Meeting, Anaheim, CA March 28-April 1, 2004, 1 pg.	
	JC	ALOBALDI, Fahad, et al., "Direct Synthesis of Linear Low-Density Polyethylene of Ethylene/1-Hexene from Ethylene with a Tandem Catalytic System in a Single Reactor," Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 42, 2004, pgs. 4327-4336.	

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)			
	JD	ANDES, Cecily, et al., "Formation of an Ethene Trimerization Catalyst from (CH ₃) ₂ TACL ₃ ," INOR 261, 1 pg.	
	JE	ANDES, Cecily, et al., "New Tantalum-Based Catalyst System for the Selective Trimerization of Ethene to 1-Hexene," J. Am. Chem. Soc., Vol. 123, No. 30, 2001, pgs. 7423-7424.	
	JF	ANDES, Cecily, et al., "New Tantalum Catalyst for the Selective Trimerization of Ethene," INOR 273, 1 pg.	
	JG	BLOK, Arno N.J., et al., "Mechanism of Ethene Trimerization at an ansa-(Arene)(cyclopentadienyl) Titanium Fragment," Organometallics, Vol. 22, No. 13, 2003, pgs. 2564-2570.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT For: Methods of Preparation of an Olefin Oligomerization Catalyst (Use several sheets if necessary)	APPLICANT Ronald D. Knudsen, et al.	
	FILING DATE 02/20/2004	GROUP 1764

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